

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 58207575
PUBLICATION DATE : 03-12-83

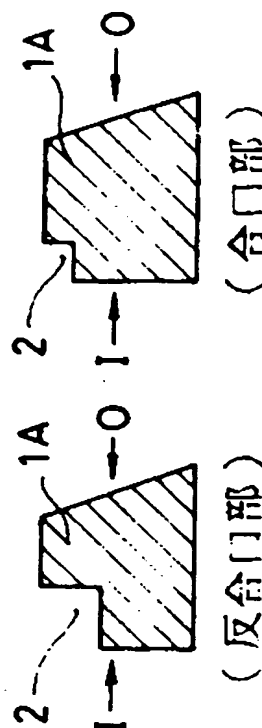
APPLICATION DATE : 28-05-82
APPLICATION NUMBER : 57089809

APPLICANT : YANMAR DIESEL ENGINE CO LTD;

INVENTOR : OKAJIMA TOSHIYUKI;

INT.CL. : F16J 9/20

TITLE : PISTON RING



ABSTRACT : **PURPOSE:** To aim at lowering the consumption of lubrication oil and as well reducing blow-by gas, by reducing differences in torsion which is generated in different parts of a piston ring having an asymmetrical cross section by working the inner peripheral side of the piston ring.

CONSTITUTION: A notch 2 is formed in the inner periphery side of a piston ring so that the ring has a cross-sectional area and shape which continuously vary. In the drawing in which cross sections of the counter abutment part and abutment part of a tapered ring 1A are shown, the notch 2 is formed continuously varying such that the cross section is maximum in the upper surface of the inner peripheral side 1 of the counter abutment part, but is minimum in the upper surface of the inner peripheral side 1 of the abutment part.

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PUBLICATION NUMBER : 59043260
PUBLICATION DATE : 10-03-84

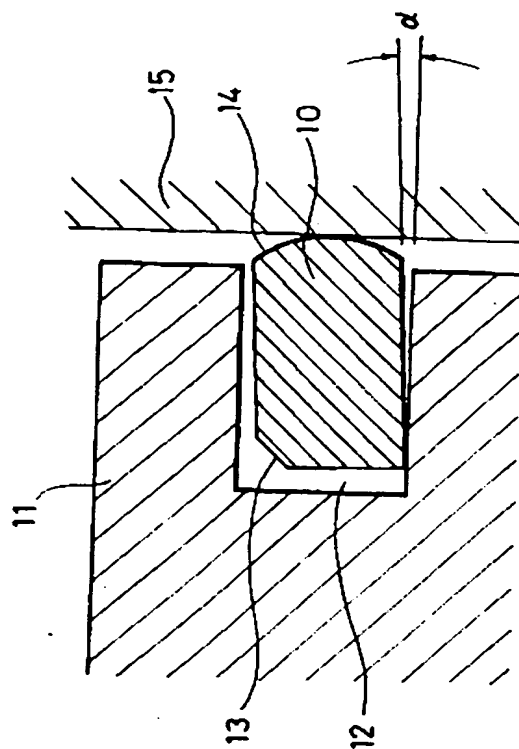
APPLICATION DATE : 04-09-82
APPLICATION NUMBER : 57154391

APPLICANT : YANMAR DIESEL ENGINE CO LTD;

INVENTOR : OKAJIMA TOSHIYUKI;

INT.CL. : F16J 9/20

TITLE : PISTON RING



ABSTRACT : PURPOSE: To save lubricant by making such that the lower face of top ring will make angle of 5'-25' against the lower face of the top ring groove when mounting.

CONSTITUTION: When mounting a piston ring 10 in the top ring groove 12, it is selected such that the lower face of the piston ring 10 will make angle of 5'-25' against the lower face of the top ring groove 12. When said angle is smaller than 5', lubricant is not saved sufficiently. While when it is larger than 25', initial gnawing or edge loading of the piston ring 10 may cause abnormal abrasion on the sliding face of the piston ring 10 or the wall face of the cylinder 15.

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